

CLAIMS

We I claim:

1 1. A drive for track laying vehicles comprising:

2 an electric traction motor having a rotor;

3 at least one variable speed mechanical gear stage; and

4 at least one brake;

5 wherein at least one of said gear stage and said brake are arranged inside the

6 rotor of the electric motor and the other of said gear stage and said brake are arranged laterally

7 outside the electric motor so as to be arranged coaxially therewith and in substantially the same

8 plane.

1 2. The drive in accordance with claim 1, wherein said electric traction

2 motor further comprises an internal and external rotor.

1 3. The drive in accordance with claim 1, wherein said electric traction

2 motor is operable to allow brief operation close to a motor cut-off output.

1 4. The drive in accordance with claim 1, further comprising:

2 a first epicyclic gear unit acting as a fixed stage;

3 a second epicyclic gear unit driven by said first epicyclic gear unit; and

4 a plurality of multiple-disc clutches operably connected to said second epicyclic

5 gear and having an output shaft operably connected with said at least one brake;

6 wherein said electric traction motor comprises an external-rotor motor, and

7 wherein one of said first and second epicyclic gears and one of said plurality of multiple-disc

8 clutches are arranged one behind the other in an interior region of the external-rotor motor,
9 and the other of said first and second epicyclic gears and another of said plurality of multiple-
10 disc clutches are arranged to lie outside the external-rotor motor coaxially in a plane with said
11 at least one brake in a radial direction from said external-rotor motor.

1 5. The drive in accordance with claim 1, further comprising a plurality of
2 gear stages, and a plurality of clutches, wherein at least one gear stage and at least one clutch
3 are arranged in an interior of the electric motor, and wherein at least another of said gear
4 stages and said clutches in addition to said at least one brake are arranged coaxially with
5 respect to each other in the same plane outside said electric motor.

1 6. The drive in accordance with claim 1, further comprising a plurality of
2 gear stages and a plurality of clutches, wherein two of said plurality of gear stages and at least
3 one of said plurality of clutches are arranged in an interior of said electric motor, and wherein
4 at least another of said clutches and said at least one brake are coaxially arranged in the same
5 plane outside said electric motor.

1 7. The drive in accordance with claim 1, wherein said at least one brake is
2 arranged outside the electric motor in a radial direction therefrom.